



COUNTY OF SAN DIEGO

Great Government Through the General Management System – Quality, Timeliness, Value

DEPARTMENT OF HUMAN RESOURCES

CLASS SPECIFICATION

CLASSIFIED

BROADCAST ENGINEER

Class No. 002487

■ CLASSIFICATION PURPOSE

To design, install, maintain, upgrade, and repair all audio and video broadcast equipment and systems; and to perform related work as required.

■ DISTINGUISHING CHARACTERISTICS

Broadcast Engineers are allocated only to the Department of Media and Public Relations. Under general direction, incumbents are responsible for the maintenance, repair, and upgrade of broadcast audio and video equipment and systems. Broadcast Engineers are technicians and are distinguished from the Video Production series in that the latter are responsible for production based activities such as the operation of video and sound equipment, filming, lighting, editing and copying, writing scripts, and directing.

■ FUNCTIONS

The examples of functions listed in the class specification are representative but not necessarily exhaustive or descriptive of any one position in the class. Management is not precluded from assigning other related functions not listed herein if such functions are a logical assignment for the position.

Essential Functions:

1. Uses vector scopes and wave monitors to ensure the quality of the broadcast signal, signal compliance with FCC parameter regulations, and that the signal remains on the air.
2. Installs, maintains, repairs, and upgrades broadcast audio and video equipment and systems.
3. Troubleshoots equipment and/or system failures.
4. Assesses department needs and recommends equipment purchases and/or designs and constructs audio and video systems.
5. Sets up and tests audio and video equipment for remote filming, productions, board meetings, conferences, and special presentations.
6. Maintains knowledge of state-of-the-art technology in broadcasting equipment and systems.
7. Maintains financial and maintenance records for the purchase and repair of broadcast equipment and systems.
8. Provides responsive, high quality service to County employees, representatives of outside agencies and members of the public by providing accurate, complete and up-to-date information, in a courteous, efficient and timely manner.

■ KNOWLEDGE, SKILLS, AND ABILITIES

Knowledge of:

- Broadcasting process involving the production and maintenance of a signal.
- Remote broadcasting and productions.
- Computer software and broadcast equipment interface (e.g., automated playback systems).
- Audio and video broadcast equipment and systems operations.
- FCC signal parameter regulations.
- Broadcast equipment and systems technology.
- Electrical systems and general construction.
- County customer service objectives and strategies.
- The General Management System in principle and in practice.

Skills and Abilities to:

- Test broadcast signal using oscilloscopes, vector scopes, multimeters, frequency counters, and signal generators.
- Install, maintain, and repair audio and video broadcast equipment and systems.
- Install video card upgrades in computers.
- Interpret signal-testing equipment.
- Plan, set-up, test, and troubleshoot broadcast equipment and systems for remote productions and filming.
- Communicate effectively orally and in writing.
- Establish effective working relationships with management, employees, employee representatives, and the public representing diverse cultures and backgrounds.
- Treat County employees, representatives of outside agencies, and members of the public with courtesy and respect.
- Exercise appropriate judgment in answering questions and releasing information; analyze and project consequences of decisions and/or recommendations.

■ **EDUCATION/EXPERIENCE**

Education, training, and/or experience that demonstrate possession of the knowledge, skills, and abilities listed above. Examples of qualifying education/experience are:

1. An associate's degree or the equivalent of two (2) years of formal training in advanced electronics or broadcast engineering, AND, three (3) years of combined experience in broadcast engineering in a large market with both remote and studio broadcast experience, OR
2. Five (5) years of combined experience in broadcast engineering in a large market with both remote and studio broadcast experience.

■ **ESSENTIAL PHYSICAL CHARACTERISTICS**

The physical characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of the classification. Reasonable accommodation may be made to enable an individual with qualified disabilities to perform the essential functions of a job, on a case-by-case basis.

Continuous upward and downward flexion of the neck. Frequent: repetitive use of hands to operate equipment, walking, standing, sitting, bending and twisting of neck, bending and twisting of waist, squatting, grasping, reaching above and below shoulder level, and lifting and carrying objects weighing up to 40 pounds. Occasional: lifting and carrying objects weighing up to 60 pounds.

■ **SPECIAL NOTES, LICENSES, OR REQUIREMENTS**

License

A valid California class C driver's license, which must be maintained throughout employment in this class, is required at time of appointment, or the ability to arrange necessary and timely transportation for field travel. Employees in this class may be required to use their own vehicle.

Certification/Registration

None Required.

Working Conditions

Subject to weekend work, standby, and emergency call back. Exposure to high voltage.

Background Investigation

Must have a reputation for honesty and trustworthiness. Misdemeanor and/or felony convictions may be disqualifying depending on type, number, severity, and recency. Prior to appointment, candidates will be subject to a background investigation.

Probationary Period

Incumbents appointed to permanent positions in this class shall serve a probationary period of 12 months (Civil Service Rule 4.2.5).

New: April 23, 1999
Reviewed: Spring 2003
Revised: June 8, 2004
Revised: February 9, 2005